



**PATENT**

Case Docket No. NATURES.015C3

Date: April 21, 2004

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : Peter T. McCarthy  
Appl. No. : 10/762,640  
Filed : January 22, 2004  
For : METHODS FOR CREATING  
CONSISTENT LARGE SCALE  
BLADE DEFLECTIONS  
Examiner : Unknown  
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

April 21, 2004

(Date)

Mark J. Kertz

Mark J. Kertz, Reg. No. 43,711

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

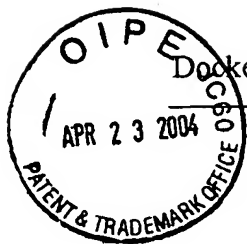
Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with 147 references, 39 of which are enclosed.
- (X) Return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Mark J. Kertz

Mark J. Kertz  
Registration No. 43,711  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404



## INFORMATION DISCLOSURE STATEMENT

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DEFLECTIONS  
Examiner : Unknown  
Group Art Unit : Unknown

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 147 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,  
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: Apr. 21, 2004

By: Mark Kertz  
Mark J. Kertz  
Registration No. 43,711  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. NATURES..015C3	APPLICATION NO. 10/762,640
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Peter T. McCarthy	
(USE SEVERAL SHEETS IF NECESSARY)		EXAMINING DATE January 22, 2004	GROUP Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	5,384	12/4/1847	R.A. Tilghman			
	2	144,538	11/11,1873	Harsen			
	3	169,396	11/2/1875	O.G. Ahlstrom			
	4	234,305	05/28/25	Bovey			
	5	476,092	12/01/37	Valente			
	6	783,012	02/21/05	Biedermann et al.			
	7	787,291	unknown	Michiels			
	8	871,059	11/12/07	Douse			
	9	998,146	07/18/11	Alfier et al.			
	10	1,061,264	5/13/1913	Bys			
	11	1,324,722	12/11/1917	William Bergin			
	12	1,607,857	5/27/1926	F. Zukal			
	13	1,684,714	08/12/27	Perry			
	14	2,241,305	02/27/39	Hill, Jr.			
	15	2,321,009	9/27/1940	O.P. Churchill			
	16	2,343,468	3/7/1944	Messinger			
	17	2,423,571	07/08/47	Wilen			
	18	2,588,363	03/11/52	Corlieu			
	19	2,850,487	9/2/1958	Gaetano F. D'Alello			
	20	2,865,033	12/23/1958	D.L. Jayet			
	21	2,889,563	6/9/1959	E.W. Lamb, et. al.			
	22	2,903,719	9/15/1959	J.L. Wozencraft			
	23	2,950,487	08/30/60	Woods			
	24	3,019,458	2/6/1962	E. De Barbieri, et. al.			
	25	3,055,025	9/25/1962	L. Ferraro, et. al.			
	26	3,082,442	3/26/1963	Cousteau, et al.			
	27	3,084,355	04/09/63	Ciccotelli			

EXAMINER

DATE CONSIDERED

\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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	28	3,086,492	04/23/63	Holley			
	29	3,109,495	11/5/63	Lang			
	30	3,112,503	12/3/1963	B.B. Girden			
	31	3,171,142	3/2/1965	Auzols			
	32	3,239,857	3/15/1966	Frederick H. Gwynne			
	33	3,256,540	6/21/1966	Novelli			
	34	3,411,165	11/19/68	Murdoch			
	35	3,422,470	01/21/69	Mares			
	36	3,453,981	07/08/69	Gause			
	37	3,491,997	01/27/70	Winters			
	38	3,665,535	5/30/1972	Picken			
	39	3,773,011	11/20/73	Gronier			
	40	3,810,269	5/14/74	Tabata			
	41	3,922,741	12/02/75	Semeia			
	42	3,934,290	01/27/76	Le Vasseur			
	43	3,952,351	04/27/76	Gisbert			
	44	4,007,506	2/15/1977	Rasmussen			
	45	4,025,977	5/31/1977	Cronin			
	46	4,083,071	04/11/78	Forjot			
	47	4,193,371	03/18/80	Baulard-Caugan			
	48	4,197,869	04/15/80	Moncrieff-Yeates			
	49	4,209,866	7/1/1980	Loeffler			
	50	4,342,558	08/03/82	Wilson			
	51	4,521,220	06/04/85	Schoofs			
	52	4,541,810	09/17/85	Wenzel			
	53	4,657,515	4/14/1987	Ciccotelli			
	54	4,689,029	8/25/1987	Ciccotelli			

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	55	4,738,645	04/19/88	Garofalo			
	56	4,752,259	6/21/1988	Tackett, et. al.			
	57	4,773,885	9/27/1988	Ciccotelli			
	58	4,775,343	10/4/1988	Lamont, et. al.			
	59	4,781,637	11/01/88	Caires			
	60	4,820,218	04/11/89	Van de Pol			
	61	4,857,024	08/15/89	Evans			
	62	4,869,696	9/26/1989	Ciccotelli			
	63	4,895,537	1/23/1990	Ciccotelli			
	64	4,929,206	5/29/1990	Evans			
	65	4,934,971	06/19/90	Picken			
	66	4,940,437	07/10/90	Piatt			
	67	4,944,703	07/31/90	Mosier			
	68	4,954,111	09/04/90	Cressi			
	69	4,954,112	09/04/90	Negrini et al.			
	70	5,163,859	11/17/92	Beltrani, et al.			
	71	5,304,081	4/19/1994	Takizawa			
	72	5,324,219	06/28/94	Beltrani et al.			
	73	5,356,323	10/18/94	Evans			
	74	5,358,439	10/25/94	Paolo			
	75	5,374,210	12/20/94	Sardella			
	76	5,387,145	2/7/1995	Wagner			
	77	5,417,599	05/23/95	Evans			
	78	5,429,536	7/4/1995	Evans			
	79	5,435,764	7/25/1995	Testa, et. al.			
	80	5,443,593	8/22/1995	Garofalo			
	81	5,522,748	6/4/1996	Cressi			

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	82	5,527,197	6/18/1996	Evans			
	83	5,533,918	7/9/1996	Sanders			
	84	5,595,518	1/21/1997	Ours			
	85	5,597,336	1/28/1997	Evans			
	86	5,634,613	6/3/97	McCarthy			
	87	5,746,631	5/5/1998	McCarthy			
	88	5,810,629	9/22/1998	Parr			
	89	6,050,868	4/18/00	McCarthy			
	90	6,053,788	4/25/00	Garofalo			
	91	6,095,879	8/2000	McCarthy			
	92	6,126,503	10/3/00	Viale, et al.			
	93	6,146,224	11/14/00	McCarthy			
	94	6,290,561 B1	9/18/01	Garofalo et al.			
	95	6,364,728 B1	4/2/02	Viale et al.			
	96	6,371,821	4/16/02	McCarthy			
	97	6,413,133 B1	7/2/02	McCarthy			
	98	6,482,059 B2	11/19/02	McCarthy			
	99	6,497,597	12/24/02	McCarthy			
	100	6,585,548	7/1/03	McCarthy			
	101	6,607,411	8/19/03	McCarthy			
	102	Des. 278,165	3/26/1985	Evans			
	103	Des. 302,999	8/22/1989	McCredie			
	104	Des. 327,933	7/14/1992	Evans			
	105	Des. 327,934	7/14/1992	Evans			
	106	Des. 327,935	7/14/1992	Evans			
	107	Des. 328,118	7/21/1992	Evans			
	108	Des. 340,272	10/12/1993	Evans			

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	109	Des. 353,181	12/6/1994	Evans			
	110	Des. 393,684	4/21/1998	Lin			
	111	Des. 396,897	8/11/1998	Evans			
	112	Des. 404,456	1/19/1999	Evans			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	113	1501208	Nov 1967	France				
	114	DD 259 353 A	08/24/88	Germany				
	115	FR 2574 748 A	06/20/86	France				
	116	JP62 134395	06/17/87	Japan				
	117	SU 1323 463 A	03/13/86	Soviet Union				
	118	0 308 998	03/29/89	Europe				
	119	DE 3438808	04/24/86	Germany				
	120	2 058 941	1971	France				
	121	2 213 072	1974	France				
	122	625377	09/19/61	ITALY (with Certified Translation)			X	
	123	1.245.395	9/26/60	FRANCE (with Certified Translation)			X	
	124	17,033	1890	England				
	125	787,291	1935	France				
	126	553307	1956	Italy				
	127	61-6097	1986	Japan				
	128	1,075 997	1960	Germany (with Certified Translation)			X	
	129	1284765	1972	Great Britain				
	130	2 543 841	1983	France (with certified translation)			X	
	131	234305	5/28/1925	Great Britain				

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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	132	2,490,498	3/26/82	France				
	133	1,208,636	1959	France				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	134	Rossier, Robert N., entitled, "Moving Forward - Getting your best kick in the water can come from a combination of design, efficiency and hydrodynamics in fins". ALERT DIVER, Nov-Dec 1997, pages 26 - 28.
	135	Triantafyllou, Michael S. and Triantafyllou George S., entitled, "An Efficient Swimming Machine". SCIENTIFIC AMERICAN, March 1995, pages 64-70.
	136	"3302 of 1880" (Picture From Book-Found in USPTO)
	137	"Test Dive" Article in Jan/Feb 1996 issue of <i>Sport Diver Magazine</i>
	138	"Oceanic V-Drive Fins" in May/Jun. 1996 Issue of <i>Sport Diver Magazine</i>
	139	Walton and Katz "Application of Leading-Edge Vortex Manipulations to Reduce Wing Rock Amplitudes" <i>Journal of Aircraft</i> Vol. 30, No. 4, pp. 555-559
	140	Traub and Nurick "Effects of Wing-Tip Vortex Flaps" <i>Journal of Aircraft</i> Vol. 30, No. 4, pp. 557-559
	141	Grantz and Marchman III "Trailing Edge Flap Influence on Leading Edge Vortex Flap Aerodynamics", <i>Journal of Aircraft</i> Vol. 20, No. 2, pp. 165-169
	142	Rao "An Exploratory Study of Area-Efficient Vortex Flap Concepts" <i>Journal of Aircraft</i> , Vol. 20, No. 12, pp. 1062-1067
	143	Lamar and Campbell "Vortex Flaps-Advanced Control Devices for Supercruise Fighters" Jan. 1984, Aerospace America.
	144	"BZ" bodysurfing fin (Picture), 1 <sup>st</sup> production in 1990
	145	"Blade Pro" bodysurfing fin (Picture), 1 <sup>st</sup> production 1991
	146	"Wave Rebel" bodysurfing fin (Picture), 1 <sup>st</sup> production 1994
	147	Art. 1400 Pinna "Professional" Fin (1989)

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